

WHAT IS CLAIMED IS:

1. An apparatus for controlling inclined angle of an AV front panel for automobile by means for converting driving
5 force of the a motor into linear movement, comprising:

means for inclining the front panel without a separate trajectory for inclining of the front panel;

- means for transmitting rotating force of a motor to the inclining means for the sake of inclination of the front panel;
10 and

means for opening and closing the front panel as a result of the action of the inclining means, the transmitting means and the converting means.

- 15 2. The apparatus as set forth in claim 1, in which the rotating force transmitting means comprises:

a motor for opening and closing the front panel, said motor being capable of rotating in opposite directions and having a worm fixed at a shaft thereof;

- 20 a worm gear engaged with the worm and having a concentric sub-gear integrally formed thereat; and

a gear engaged with the worm gear.

3. The apparatus as set forth in claim 1, in which the
25 rotating means comprises a sector gear engaged with the gear of

the rotating force transmitting means and having a protrusion at its side.

4. The apparatus as set forth in claim 1, in which the
5 opening and closing means comprises:

an arm link having a guide hole and a long hole, the long hole receiving a shaft of the gear of the rotating force transmitting means therein such that the arm link is rotatable about the shaft and slidable on the shaft, the guide hole
10 having an opening, the arm link also having at its outer end a pin hingedly connected to an upper part of the front panel; and

an upright guide having an opening at its lower end such that the pin of the arm link enters the opening and slides along the upright guide.

15